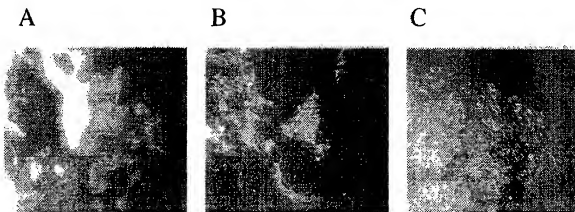




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(54) Title: PROSTHESES WITH ASSOCIATED GROWTH FACTORS



(57) Abstract

A polypeptide growth factor is associated with a substrate to promote population of the substrate with endothelial cells. A prosthesis is formed with growth factor crosslinked to the substrate. Preferred polypeptide growth factors include VEGF. VEGF treated tissue can be populated with endothelial cells *in vitro* and/or *in vivo*. In an alternative approach, VEGF can be associated with the substrate by direct contact with a VEGF solution, application of the VEGF with an adhesive as a coating to the substrate, or chemical binding of the VEGF to the substrate with or without an intervening linker molecule. In one preferred approach, the growth factor is associated with the substrate by crosslinking under suitably mild conditions such that the growth factor is active following the crosslinking process.

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 99/01391

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 A61L27/00 A61L31/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 6 A61L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 742 020 A (NICEM LTD) 13 November 1996 (1996-11-13) column 4, line 11 - line 31 column 6, line 4 - column 7, line 47 column 8, line 34 - line 46 claims 1-18 -----	1-6, 9-13, 16-24, 28-33, 35-38, 43-47
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Information on patent family members

International Application No

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